IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tapas Mukhopadhyay, et al.

Serial No.: 10/043,877

Filed: January 9, 2002

For: ANTIHELMINTHIC DRUGS AS A

TREATMENT FOR

HYPERPROLIFERATIVE DISEASES

Group Art Unit: 1642

Examiner: B. J. Fetterolf

Atty. Dkt. No.: INRP:095US

SECOND DECLARATION OF TAPAS MUKHOPADHYAY, SUNIL CHADA, ABNER MHASHILKAR, AND JACK A. ROTH UNDER 37 C.F.R. §1.131

We, Tapas Mukhopadhyay, Sunil Chada, Abner Mhashilkar, and Jack A. Roth, hereby declare as follows:

- 1. We are the joint inventors of the subject matter claimed in the above-referenced patent application, U.S.S.N. 10/043,887, filed January 9, 2002.
- 2. We are submitting this declaration to set forth facts demonstrating that we both conceived the idea of the invention as reflected in the claims of the above-referenced patent application and determined that it functioned, prior to March 9, 1999.
- 3. Submitted as Exhibit 1 to this declaration is a copy of a FACS assay showing our experiments and results, entitled figures "1A" and "1B" which was prepared prior to March 9, 1999.

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- 4. Submitted as Exhibit 2 to this declaration is a copy of our experiments and results in a study of the treatment of p53 wild type lung cancer cells with fenbendazole, which took place prior to March 9, 1999.
- 5. Exhibit I shows the results of our cell cycle analysis involving A549 (p53 wild type) non-small cell lung cancer (NSCLC) cells that have been treated with fenbendazole. The results show that the untreated A549 cells (A549C), have a standard profile of cells in various phases of the cell cycle, G1/S/G2, indicating a dominant G1 population. In contrast, the fenbendazole treated cells (A549 7EN) show a depression of both G2 and S phases and a G1 block. Furthermore, the fenbendazole treated cells show a distinct sub-G0-G1 population indicative of apoptotic cells. We generated the results of this cell cycle analysis prior to March 9, 1999.
- 6. Exhibit 2 shows the results of our study of the treatment of p53 wild type lung cancer with fenbendazole. We determined that treatment of p53 wild type lung cancer cells with fenbendazole inhibits growth. The study evaluated growth of lung cancer cells or normal lung epithelium (NHBEC) after treatment with fenbendazole (labeled FEN in the figure) and other agents. Both H1299 and H322 are p53 deficient NSCLC cells and show modest growth inhibition by fenbendazole after 5-7 days. In contrast, the p53 wild type cells A549 and H460 show dramatic inhibition of cell growth by fenbendazole that is evident by day 1-3 and 50-80% growth inhibition by day 5-7 of treatment. The control normal cells, NHBEX do not show growth inhibition by fenbendazole. We generated the results of this study prior to March 9, 1999.
- 7. All work disclosed in the invention disclosure form was conducted in the United States of America.

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- 9. We hereby declare that all statements made by our own knowledge are true and all statements made on information and belief are believed to be true and further that statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment under § 100 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of this application or any patent issued thereon.

	Japas Miligradhyan
Date	Tapas Mukhopadhyay
Date	Sunil Chada
Date	Abner Mhashilkar
Date	Jack A. Roth

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Date	Tapas Mukhopadhyay
Date 67/21/05	Sunil Chada
Date	Abner Mhashilkar
Data	Inch A Poth

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Date	Tapas Mukhopadhyay
Date 08/10/05	Sunil Chada
Date	Abar Mhashilkar
Date	Jack A Roth

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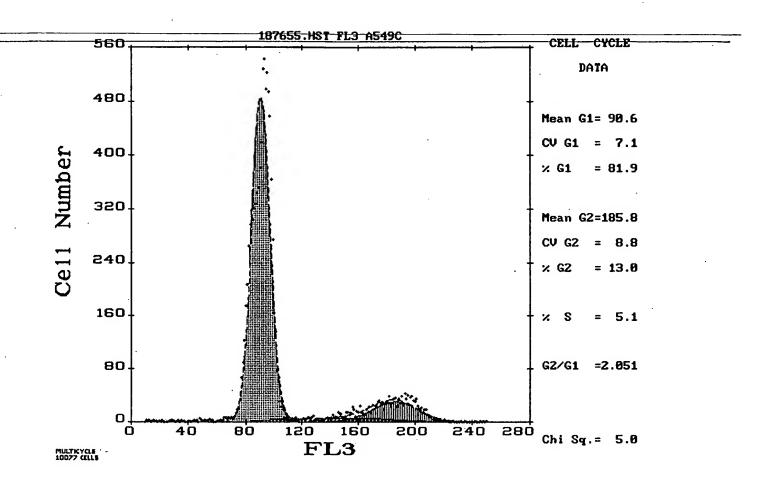
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Date	Tapas Mukhopadhyay
Date	Sunil Chada
Date	Abner-Mhashilkar
8-15-05 Date	Jack A. Roth

Exhibit 1



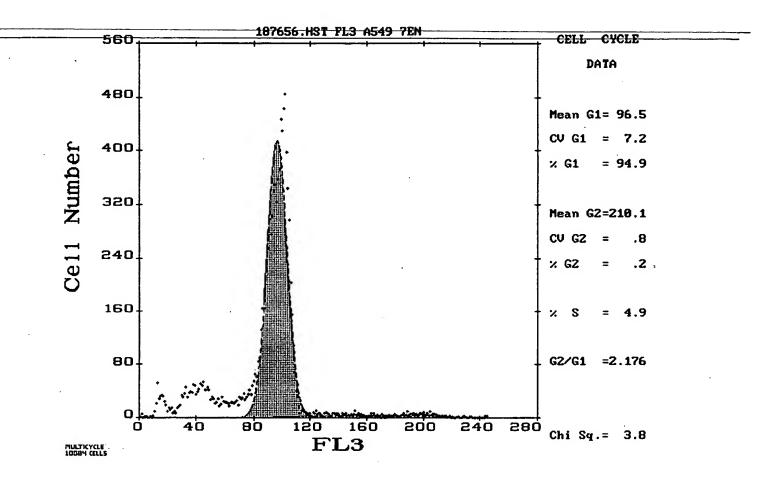
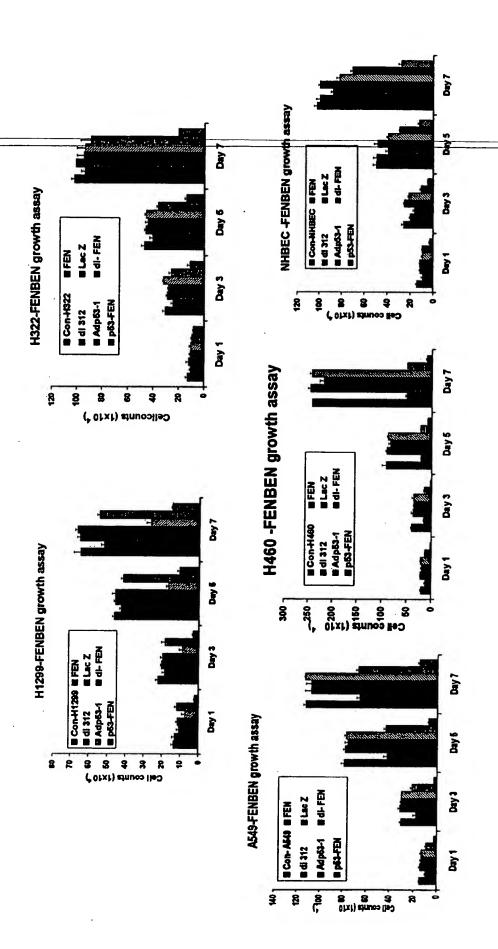
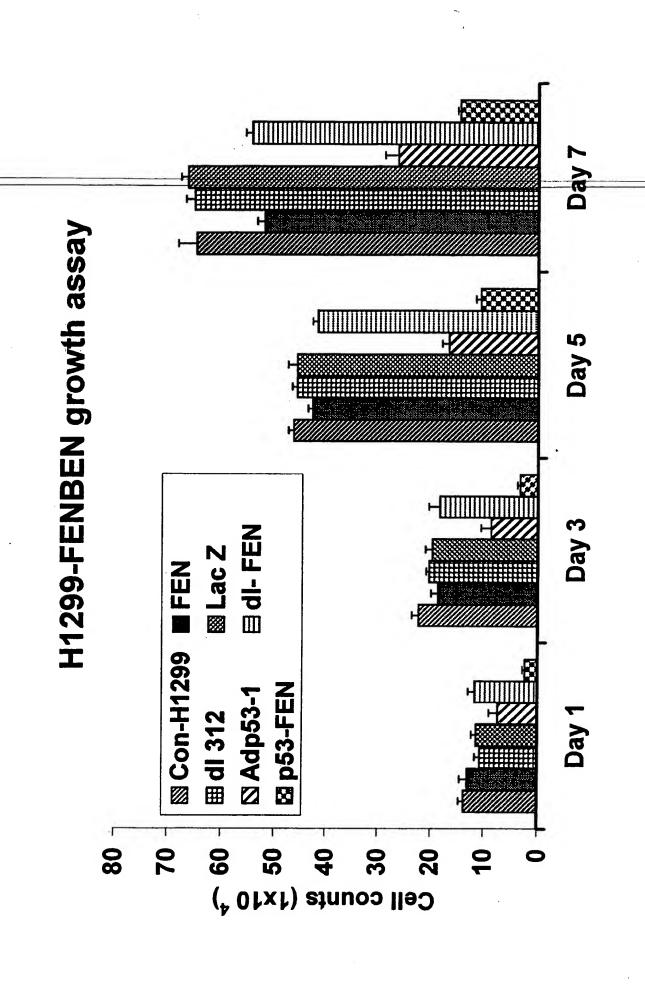
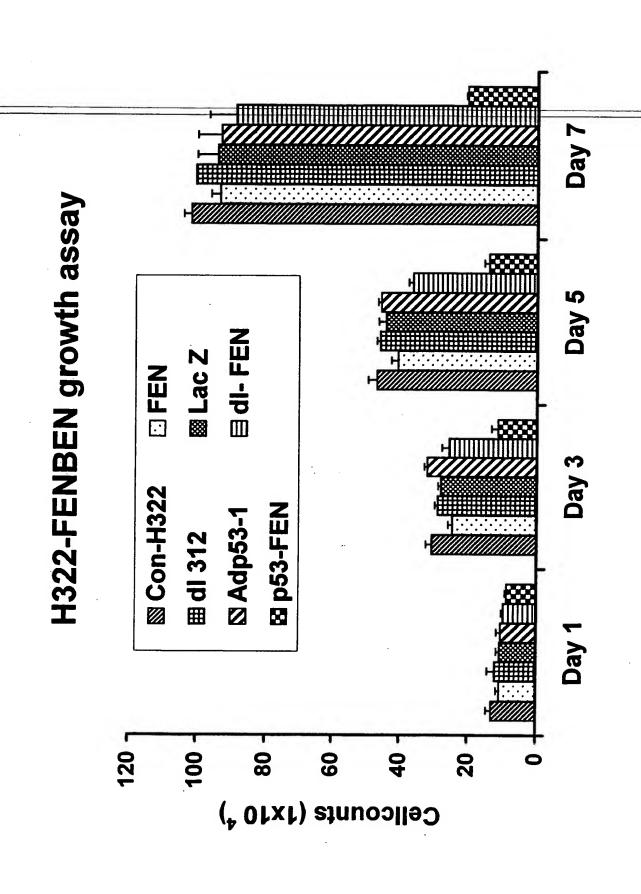
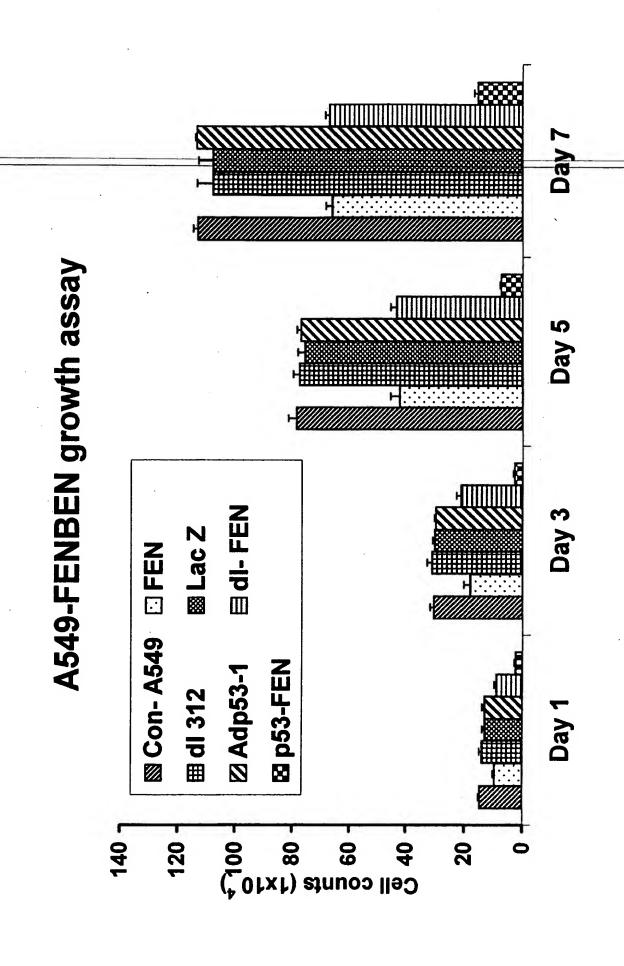


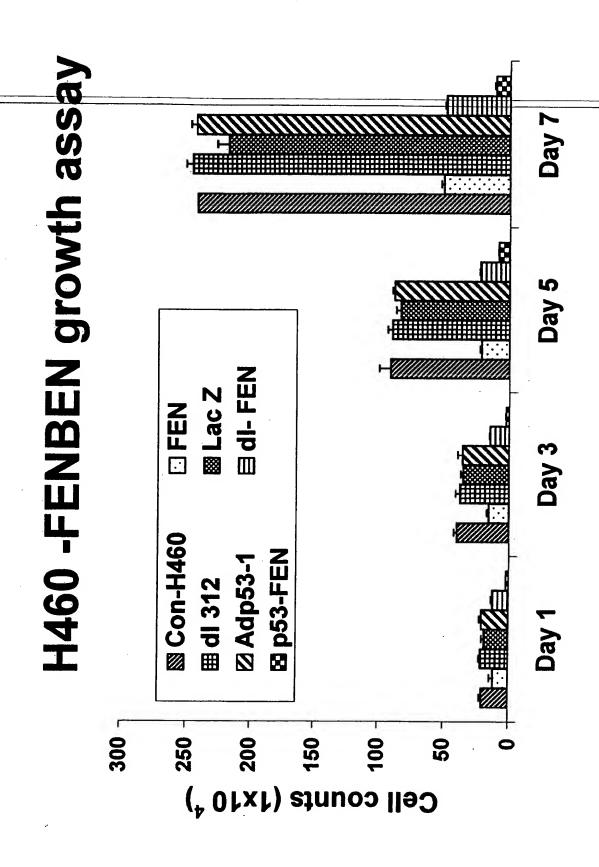
Exhibit 2

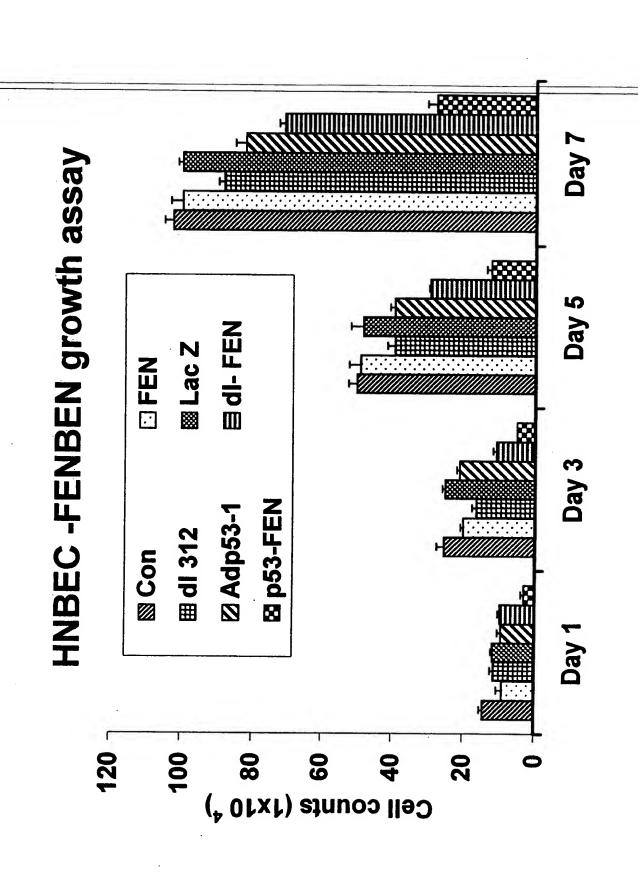












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28	20	10	37	28	46	35	70	\$8				
) 29	XZ		12		X2		XZ	J G				
X-F30	16.	8	20	10	29	15	40	20				
31	18	9	20	10	30	15	39	مح				
	18	9	127	14	24	12	41	21				

					Day 1	sd		
	Con-NHB	15	13		14.33333		25	23
	FEN	10	7	10	9	1.414214	21	20
	dl 312	10	12	12	11.33333	0.942809	16	15
	Lac Z	11	12	12	11.66667	0.471405	24	26
	Adp53-1	10	8		9.333333		20	21
	di- FEN	10	9	10	9.666667	0.471405	10	10
	p53-FEN	4	3	2	3		5	5
	p	•		-		0.010401	•	•
;				1	Day 1	sd		
	Con-H460	19	22		20.33333	1.247219	39	42
	FEN	14	13	8	11.66667	2.624669	16	14
	dl 312	23	20	21	21.33333	1.247219	41	33
	Lac Z	16	20	20	18.66667	1.885618	37	35
	Adp53-1	23	20	19	20.66667	1.699673	39	31
	di- FEN	11	14	12	12.33333	1.247219	15	15
	p53-FEN	2	2	2	2	0	2	3
			_	_		•	_	
						sd		
	Con- A549	14	15	15	14.66667		29	32
	FEN	9	10	10	9.666667	0.471405	19	20
	dl 312	14	13	15	14	0.816497	29	33
	Lac Z	12	14	13	13	0.816497	31	29
	Adp53-1 ·	14	13	12	13	0.816497	30	30
	dl- FEN	8	9	10		0.816497	21	23
	p53-FEN	3	2	2	2.333333	0.471405	3	3
					3 -14			
	Can Haga	45	40			sd .		
	Con-H322	15	12	12		1.414214	29	30
	FEN	12	10	10	10.66667	0.942809	25	26
	dl 312	11	12	13		0.816497	30	31
	Lac Z	10	10				27	28
	Adp53-1	10	9			1.247219	31	32
	dl- FEN	9	10		9.666667	0.471405	23	26
	p53-FEN	8	9	9	8.666667	0.471405	10	10
				Г	Day 1 s	sd		•
	Con-H129	13	15		-	0.942809	24	21
	FEN	15	12	12		1.414214	17	19
	dl 312		12		10.66667	0.942809	20	21
	Lac Z		10			0.942809	21	20
	Adp53-1	5	8		7.333333	1.699673	6	10
	di- FEN		12		11.66667	1.247219	16	21
	p53-FEN	2	2			0.471405	3	3
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	Day 3 so	1				Day 5	sd	
	25.33333 2		53	50	47	-	2.44949	
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22	21 (0.816497	38	41	39	39.33333	1.247219	_
. 12	10.66667 (0.942809	29	30	29	29.33333	0.471405	
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	Day 3 so					•	sd	
	39.66667 1		88			90.66667		
	15.66667		21		20			
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. 22	22.33333 1	.247219	45	47 4		48.33333	0.942809	
20	18.66667 1	.247219	44	42	42	42.66667	0.942809	
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18	19.66667 1	.247219	44	45	48	45.66667	1.699673	
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				Day 7	sd			
	99	103		102.3333				
	101	95		99.66687	3.399346			
	90	86	88	88	1.632993			
	100	101	98	99.66667	1.247219			
	83	78	85	82	2.94392			
•	71	69	73	71	1.632993			
	24	29	30	27.66667	2.624669			
				•	sd			
	245	250		241.6667				
	50	48		50.33333				
	240	245		245.6667				
	205	225		217.6667				
	238	242		242.6667				
	48	50		48.66667				
	10	10	12	10.66667	0.942809			
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	444	440		•	sd			
	111	113	115		1.632993			
	64	65 440	69		2.160247			
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	14	15		15.33333				
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				Day 7	sd			
	100	101	105		2.160247			
	96	95		93.66667				
	100	100	102	100.6667	0.942809			
•	99	98	86	94.33333	5.906682			
	103	89	88	93.33333	6.847546			
	80	99	88	89	7.788881			
	20	20	21	20.33333	0.471405			
					•			
		00			sd			
	60	66 50		64.66667				
	50	53	53		1.414214			
	67	63	65		1.632993			
	65	68			1.247219		-	
	23	27		26.33333				
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	15	14	15	14.66667	U.4/14U5			

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